

Viper Target Location System



Mission

Provide fire support teams and forward observers with daylight and limited night capability to observe and accurately locate targets for voice transmission of target data to the fire support command, control, communications, computers, and intelligence system.

Description and Specifications

Viper is the brand name of a Vectronix product that integrates a Vector Binocular Laser Rangefinder (BLRF) with a Precision Lightweight GPS Receiver (PLGR) equipped with PLGR+96 software to provide grid coordinates to a target.

The Vector BLRF is ruggedized, waterproof, weighs about 60 ounces, is powered by lithium batteries, and has an approximate range of four kilometers (2.5 miles) on a clear (20-kilometer = 12-mile visibility) day. The Vector BLRF provides range, magnetic azimuth, and vertical-angle measurement to the PLGR, which calculates the location of the far target.

The Viper can locate targets to within 45 meters out to a range of 4 kilometers. The Viper system also includes a tripod, an AN/PVS-14 Monocular Night Vision Device and a Mounting Bracket for the AN/PVS-14. The AN/PVS-14 provides a limited night capability for the system of approximately 500 meters. The AN/PVS-14, PLGR and PLGR+96 software are provided as U.S. Government furnished equipment.

Handheld weight: 3.8 pounds

Total system weight (daylight operation): 5.9 pounds

Total system weight (night operation): 9.2 pounds